ITCD

Accessing HQ Printers from the Guest Network
Windows
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The PRGATE server allows users of authorized networks (e.g. the Guest Network) to print via the Internet standard LPR (Line PRinter) protocol to a subset of Headquarters printers. This document describes how to set up printing via PRGATE on Windows systems.

1. Using a Web browser, open the site http://prgate.hq.nasa.gov | From the list of printers available for printing via PRGATE, select an appropriate printer from the list.

All Printers on prgate.hq.nasa.gov

Name	Status	Location	Jobs	Model	Comment
1b65-ko552	Ready	Room 1b65	0	KONICA MINOLTA C652SeriesPCL	KONICA MINO
1C67-hp4100pc	Ready	Room 1C67	0	HP LaserJet 4100 Series PCL	HP LaserJet
1J20-hp4100pc	Ready	Room 1J20	0	HP LaserJet 4100 Series PCL	HP LaserJet
		Room 1j20	0		HP LaserJet

Printer names are of the form "location-type" where "location" is the room number where the printer is located, and "type" is the make and model of the printer. The make and model often ends with the letters "pc", which indicate the printer is a PCL printer.

Example: Printer "7H46-hp4550pc" is an HP 4550 printer located on the 7th floor in room H46. The "pc" indicates the printer prefers HP "PCL" printing. Most Printers (all HP and Lanier printers) support auto-switching between PCL and Postscript.

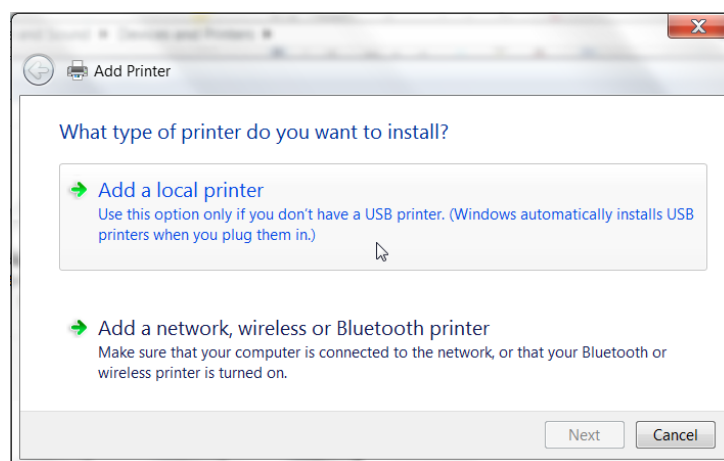2. Click the Start icon | Select **Devices and Printers**.

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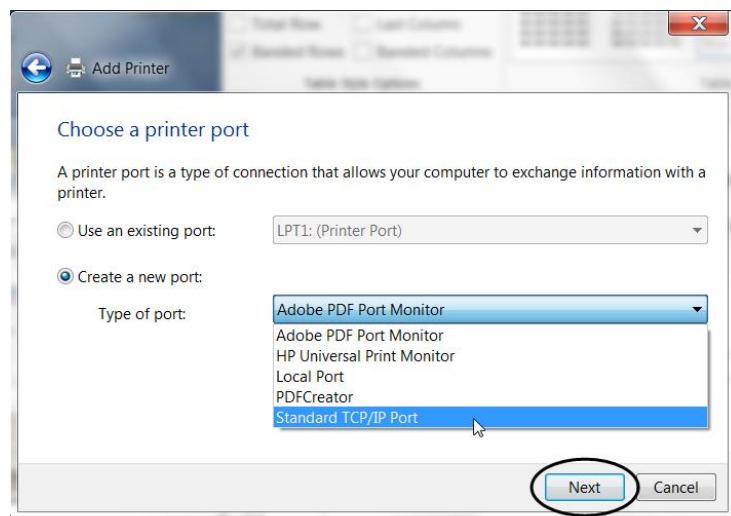3. On the **Devices and Printers** window, click **Add a printer**.
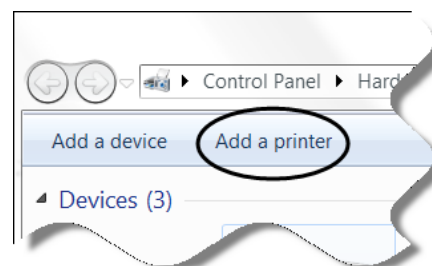
4. Under **What type of printer do you want to install?**, select **Add a local printer**.

   From a Windows perspective, printers accessed via LPR are local, not networked.

5. On the **Choose a printer port window**, select **Create a new port** | Set the type to **Standard TCP/IP Port** | Click **Next**.

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6. Next to **Hostname or IP address**, enter the following:

    Prgate.hq.nasa.gov

7. Next to **Port name:**, enter the name of the printer exactly as it appears in the prgate Web site (Step 1).

    The example at right shows the printer name: 1B65-ko552.

8. Click **Next**.

    A message appears stating that Windows is trying to detect the TCP/IP port.

9. When a window appears stating that additional port information is required, under **Device Type**, select **Custom** | Click **Settings**.

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10. Next to **Port Name:** is the name you entered for step 7. Leave it there.

11. Next to **Printer Name or IP Address** is the PRGATE name, also from step 7. Leave it there.

12. Under **Protocol**, select **LPR**.

13. Under **LPR Settings** in the **Queue Name** text box, enter the printer name exactly as it appears on the prgateWeb page in Step 1.

14. Select the checkbox next to **LPR Byte Counting Enabled**.

15. Click **OK**.
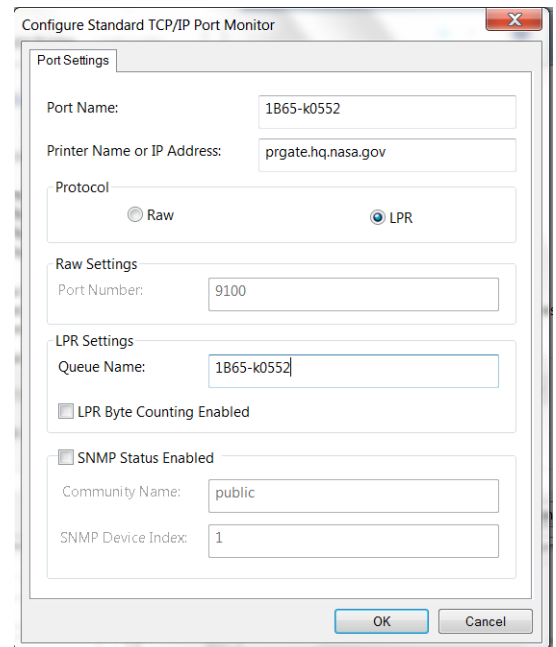
16. When the **Additional port information required** window appears again, click **Next**.
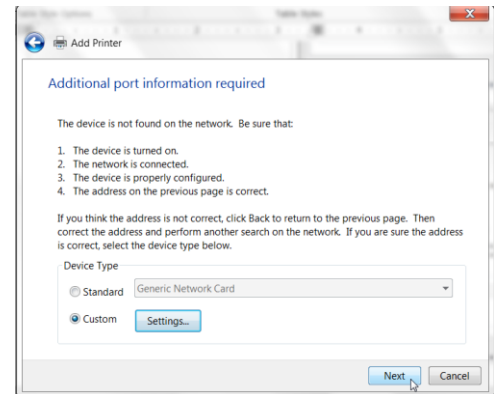
A message appears stating that Windows is trying to detect the driver model.

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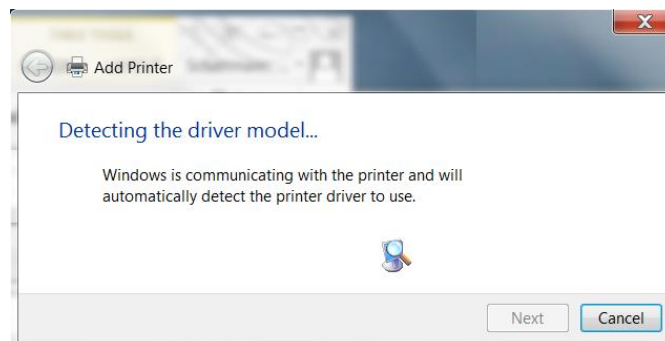
Once the port is created, Windows attempts to query the server to determine the printer type. This fails, and the window below appears.
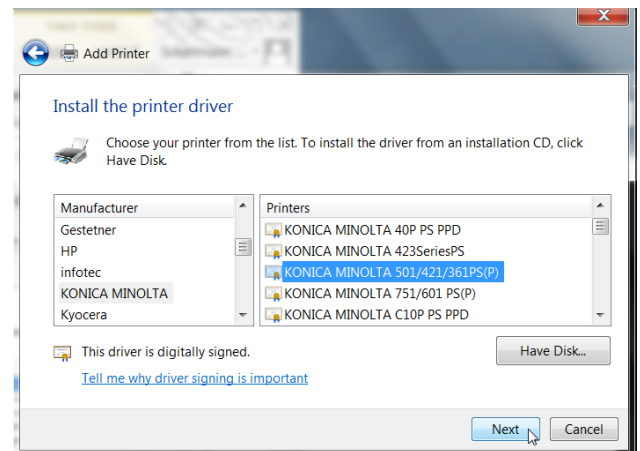
17. From the list on the left, select the proper printer type.

18. From the list on the right, select your printer.

    If your specific printer is not listed (because you do not have the proper driver loaded on your workstation) you should choose one that's close.
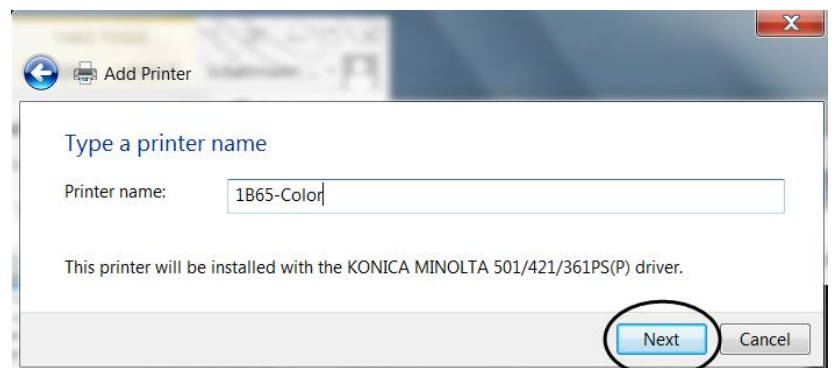
    In this case the closest match to an LB65-ko552 is a Konica Minolta 501.

19. Click **Next**.

20. When Windows prompts you for a name for the printer, select any convenient name for the **Printer name:** field | Click **Next**.

    This is for your convenience in identifying the printer when you want to use it. PRGATE does not use this name.
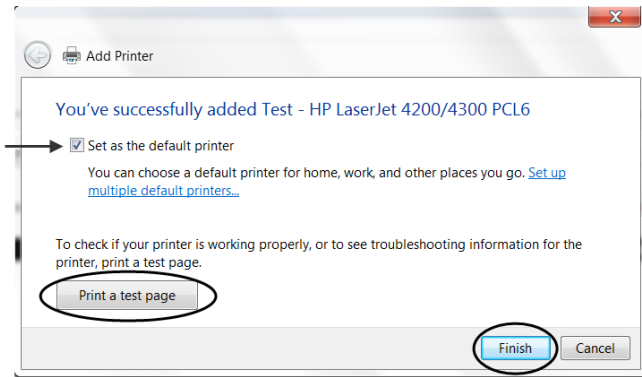
21. The **Printer Sharing** window appears asking if you want to share the printer. In general you will not want to share the printer. Click **Next.**
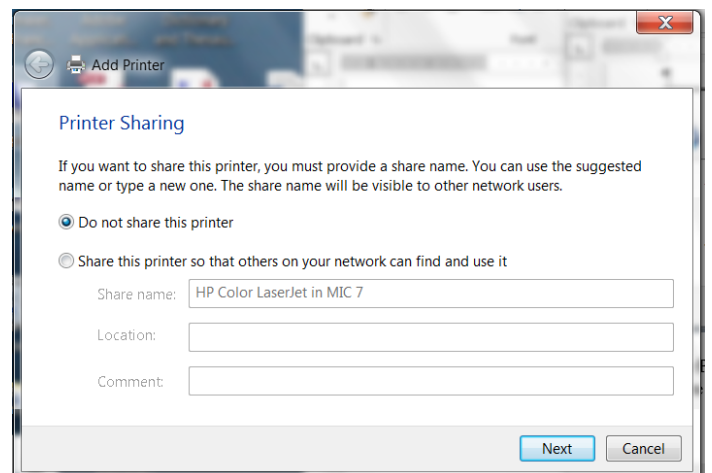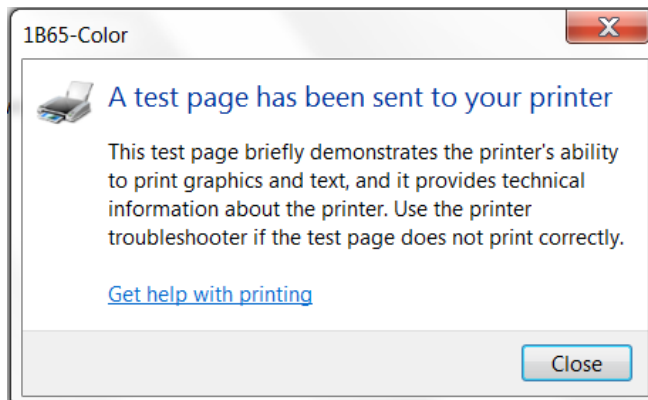
22. When you receive a confirmation message that you've successfully added the printer, click **Print a test page** | If you wish to make this your default printer, click the checkbox.

23. When you receive a confirmation message that the test page has been sent to your printer, retrieve your printout to ensure success | Click **Close** | Click **Finish**.

You can now print to this printer.

This document is posted on the ITCD Web site at:
http://itcd.hq.nasa.gov/instructions.html

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